

Form PTO-249 Equivalent	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 503.34972CX2	SERIAL NO. 10/629,711
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT UTSUMI et al	
		FILING DATE July 30, 2003	GROUP 2871

U.S. PATENT DOCUMENTS

Ex. Initial	Doc. No.	Date	Name	Class	Subclass	Filing Date
① AA	5,414,542	5/95	Kawagishi			
② AB	5,598,285	1/97	Kondo			
AC						
AD						
AE						
AF						
AG						
AH						

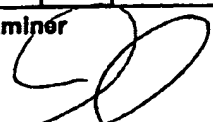
U.S. PATENT APPLICATIONS

	Publication Number	Name	Publication Date
AI			
AJ			
AK			
AL			

FOREIGN PATENT DOCUMENTS

	Doc. No.	Date	Country	Class	Subclass	Translation/Abstract?	
						Yes	No
① AM	03-233518		Japan			X	
② AN	04-181219		Japan			X	
③ AO	04-057011		Japan			X	
④ AP	08-068997		Japan			X	
⑤ AQ	08-082715		Japan			X	

OTHER DOCUMENTS

AR	
AS	
AT	
Examiner 	Date Considered 4/13/06

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 503.34972CX2	SERIAL NO.
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT UTSUMI, et al.	
		FILING DATE July 30, 2003	GROUP

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
	AA 5,841,498	11-98	Baur, et al.			
	AB 4,632,514	12-86	Ogawa, et al.			
	AC 5,139,340	8-92	Okumura			
	AD 4,345,249	8-82	Togashi			
	AE 5,048,933	9-91	Asano			
	AF RE 33987	7-92	Suzawa			
	AG 5,132,825	7-92	Miyadera			
	AH 5,211,463	5-93	Kalmanash			
	AI 5,532,854	7-96	Ferguson			
	AJ					
	AK					
	AL					

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation / Abstract	
						Yes	No
	AM 91/10936	7-91	WO				
	AN 3-233518	10-91	Japan				
	AO 4-181219	6-92	Japan				
	AP 6-222397	8-94	Japan				
	AQ 63-21907	5-88	Japan				
	AR						
	AS						
	AT						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AU	
	AV	
	AW	
	AX	
	AY	
	AZ	
Examiner	Date Considered 12/13/04	